

*B1
cont'd*
*A1
end* wavelengths of said plurality of laser diodes; and

means for compensating temperature control conditions for said laser diodes other than the reference laser diode selected from said plurality of laser diodes, according to a change in temperature control condition for said reference laser diode, wherein the reference laser diode is normally operative only at a lower temperature.

*B1
cont'd*
A2 7 9. (AS ONCE AMENDED) A wavelength control device for a light source device having a plurality of laser diodes including a reference laser diode, comprising:

a temperature sensor provided in the vicinity of said plurality of laser diodes;

a control loop for controlling the temperatures of said plurality of laser diodes according to an output from said temperature sensor to thereby control the oscillation wavelengths of said plurality of laser diodes; and

means for compensating temperature control conditions for said laser diodes other than the reference laser diode selected from said plurality of laser diodes, according to a change in temperature control condition for said reference laser diode wherein the reference laser diode is normally operative only at a lower temperature.

*sub
B1
cont'd*
A3 7 13. (AS ONCE AMENDED) A light source device comprising:

a plurality of laser diodes comprising a reference laser diode;

a first temperature sensor provided in the vicinity of said plurality of laser diodes;

a second temperature sensor provided at a position becoming lower in temperature than a position where said first temperature sensor is provided when driving said plurality of laser diodes;

a control loop for controlling the temperatures of said plurality of laser diodes according to an output from said first temperature sensor to thereby control the oscillation wavelengths of said plurality of laser diodes; and

means for compensating a detected temperature by said first temperature sensor according to a detected temperature by said second temperature sensor and according to a change in temperature control condition for the reference laser diode, wherein the reference laser diode is normally operative only at a lower temperature.

*A4
sub
B1
cont'd* 7 18. (AS ONCE AMENDED) A wavelength control device for a light source device

having a plurality of laser diodes including a reference laser diode, comprising:

a first temperature sensor provided in the vicinity of said plurality of laser diodes;

a second temperature sensor provided at a position becoming lower in temperature than a position where said first temperature sensor is provided when driving said plurality of laser diodes;

a control loop for controlling the temperatures of said plurality of laser diodes according to an output from said first temperature sensor to thereby control the oscillation wavelengths of said plurality of laser diodes; and

means for compensating a detected temperature by said first temperature sensor according to a detected temperature by said second temperature sensor and according to a change in temperature control condition for the reference laser diode, wherein the reference laser diode is normally operative only at a lower temperature.

Please ADD new claims 21-24 as follows:

21. (AS NEW) A light source device comprising:

a plurality of laser diodes comprising a reference laser diode;

a temperature sensor provided in the vicinity of said plurality of laser diodes;

a control loop controlling the temperatures of said plurality of laser diodes according to an output from said temperature sensor to thereby control the oscillation wavelengths of said plurality of laser diodes; and

a compensator compensating temperature control conditions for said laser diodes other than the reference laser diode selected from said plurality of laser diodes, according to a change in temperature control condition for said reference laser diode, wherein the reference laser diode is normally operative only at a lower temperature.

22. (AS NEW) A wavelength control device for a light source device having a plurality of laser diodes including a reference laser diode, comprising:

a temperature sensor provided in the vicinity of said plurality of laser diodes;

a control loop controlling the temperatures of said plurality of laser diodes according to an output from said temperature sensor to thereby control the oscillation wavelengths of said plurality of laser diodes; and

a compensator compensating temperature control conditions for said laser diodes other than the reference laser diode selected from said plurality of laser diodes, according to a

B¹
contd

change in temperature control condition for said reference laser diode wherein the reference laser diode is normally operative only at a lower temperature.

23. (AS NEW) A light source device comprising:

a plurality of laser diodes comprising a reference laser diode;

a first temperature sensor provided in the vicinity of said plurality of laser diodes;

a second temperature sensor provided at a position becoming lower in temperature than a position where said first temperature sensor is provided when driving said plurality of laser diodes;

a control loop controlling the temperatures of said plurality of laser diodes according to an output from said first temperature sensor to thereby control the oscillation wavelengths of said plurality of laser diodes; and

a compensator compensating a detected temperature by said first temperature sensor according to a detected temperature by said second temperature sensor and according to a change in temperature control condition for the reference laser diode, wherein the reference laser diode is normally operative only at a lower temperature.

AS
end

24. (AS NEW) A wavelength control device for a light source device having a plurality of laser diodes including a reference laser diode, comprising:

a first temperature sensor provided in the vicinity of said plurality of laser diodes;

a second temperature sensor provided at a position becoming lower in temperature than a position where said first temperature sensor is provided when driving said plurality of laser diodes;

a control loop controlling the temperatures of said plurality of laser diodes according to an output from said first temperature sensor to thereby control the oscillation wavelengths of said plurality of laser diodes; and

a compensator compensating a detected temperature by said first temperature sensor according to a detected temperature by said second temperature sensor and according to a change in temperature control condition for the reference laser diode, wherein the reference laser diode is normally operative only at a lower temperature.